

SEQ ID 2 1 ATG TTG CAG ATG GCT GGG CAG TGC TOC CAA AAT GAA TAT TTT GAC AGT TTG TTG CAT GCT
 SEQ ID 1 1 M L Q M A G Q C S Q N E Y F D S L L H A
 61 TGC ATA OCT TGT CAA CTT OCA TGT TCT TCT AAT ACT AAT OCT CTA ACA TGT CAG GCT TAT
 21 C I P C Q L R C S S N T P L T C Q R Y
 121 TGT AAT GCA AGT GTG ACC AAT TCA GTG AAA GGA AGC AAT GCG ATT CTC TCG ACC TGT TTG
 41 C N A S V T N S V K G T N A I L W T C L
 181 GGA CTG AGC TTA ATA ATT TCT TTG GCA GTT TTC GTG CTA ATG TTT TTG CTA AGG AAG ATA
 61 G L S L I I S L A V F V L M F L L R K I
 241 AGC TCT GAA OCA TTA AAG GAC GAG TTT AAA AAC ACA GGA TCA GGT CTC CTG GGC ATG GCT
 81 S S E P L K D E F K N T G S G L L G M A
 301 AAC ATT GAC CTG GAA AAG AGC ACT GGT GAT GAA ATT ATT CTT OCG AGA GGC CTC GAG
 101 N I D L E K S R T G D E I I L P R G L E
 361 TAC ACG GTG GAA GAA TGC ACC TGT GAA GAC TGC ATC AAG AGC AAA CCG AAG GTC GAC TCT
 121 Y T V E E C T C E D C I K S K P K V D S
 421 GAC CAT TGC TTT OCA CTC OCA GCT ATG GAG GAA GGC GCA ACC ATT CTT GTC ACC ACG AAA
 141 D H C F P L P A M E E G A T I L V T K
 481 ACG AAT GAC TAT TGC AAG AGC CTG OCA GCT GCT TTG AGT GCT ACG GAG ATA GAG AAA TCA
 161 T N D Y C K S L P A A L S A T E I E K S
 541 ATT TCT GCT AGG TAA
 181 I S A R .

FIG. 1

FIG. 2A
FIG. 2B

FIG. 2

1 ATG GAG ACA GAC ACA CTC CTG TTA TGG GTG CTG CTC TGG GTT CCA GGT TOC ACT GGT
11
SEQ ID 4 11 M E T D T L L L W V L L L W V P G S T G
SEQ ID 3 61 GAC GTC AGC ATG TTG CAG ATG GCT GGG CAG TGC TOC CAA AAT GAA TAT TTT GAC AGT TTG
11 M L Q M A G Q C S Q N E Y F D S L
211 D V T M L Q M A G Q C S Q N E Y F D S L
121 TTG CAT GCT TGC ATA CTT TGT CAA TGT TCT TCT AAT ACT OCT CTA ACA TGT
181 L H A C I P C Q L R C S S N T P L T C
411 L H A C I P C Q L R C S S N T P L T C
181 CAG GGT TAT TGT AAT CCA AGT GTG ACC AAT TCA GTG AAA GGA GTC GAC AAA ACT CAC ACA
381 Q R Y C N A S V T N S V K G
611 Q R Y C N A S V T N S V K G V D K T H T
241 TGC CCA CCG TGC CCA GCA CCA CCA CTC CTG GGG GGA CCG TCA GTC TTC CTC TTC CCC CCA
811 C P P C P A P E L L G G P S V F L F P P
301 AAA CCC AAG GAC ACC CTC ATG ATC TOC CCG ACC OCT GAG GTC ACA TGC GTG GTG GAC
1011 K P K D T L M I S R T P E V T C V V V D
361 GTG AGC CAC GAA GAC OCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTC CAT
1211 V S H E D P E V K F N W Y V D G V E V H
421 AAT GGC AAG ACA AAG CCG CCG GAG GAG CAG TAC AAC AGC ACG TAC CGT GTG GTC AGC GTC
1411 N A K T K P R E E Q Y N S T Y R V V S V
481 CTC ACC GTC CAC CAG GAC TGG CTG AAT GGC AAG GAG TAC AAG TGC AAG GTC TOC AAC

FIG. 2A

161▶ L T V L L H Q D W L N G K E Y K C K V S N
541 AAA GCC CTC CCA GCC CAC ATC GAG AAA ACC ATC TOC AAA GCC AAA GGC CAG CAC CCA GAA

181▶ K A L P A P I E K T I S K A K G Q P R E
601 CCA CAG GTG TAC ACC CTG CAC CCA TOC GGC GAT GAG CTG ACC AAG AAC CAG GTC AGC CTG

201▶ P Q V Y T L P P S R D E L T K N Q V S L
661 ACC TGC CTG GTC AAA GGC TTC TAT CAC ACC GGC GAT GAG TGC GAG AGC AAT GGC

221▶ T C L V K G F Y P S D I A V E W E S N G
721 CAG CCG GAG AAC AAC TAC AAG ACC ACG OCT CAC GTC TTG GAC TOC GGC GGC TTC TTC TTC

241▶ Q P E N N Y K T T P P V L D S D G S F F
781 CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG CAG GGC AAG GTC TTC TCA TGC

261▶ L Y S K L T V D K S R W Q Q G N V F S C
841 TOC GTG ATG CAT GAG GCT CTG CAC AAC CAC TAC ACG CAG AAG AGC CTC TTC CTG TCT CCA

281▶ S V M H E A L H N H Y T Q K S L S L S P
901 GGC AAA TGA

301▶ G K .

FIG. 2B

1 AAGACTCAAA CTTAGAACT TGAATTAGAT GTGGTATICA AATCCTTAGC TGC CGCGAAG
 61 ACACAGACAG CCCC CGTAAG AACCCAGAA GCAGCGCAAG TTCATTGTTC TCAACATTC
 EcoRI
 121 AGCTGCTCTT GCTGCATTTG CTCTGGAATT CTGTGAGAGA TATTACTTGT CCTTCCAGGC
 SfiI BclI
 181 TGTTCCTTCT GTAGCTCCCT TGTTCCTTCT TTGTGATCAT GTTGCAGATG GCTGGGCAGT
 1► M L Q M A G Q
 SspI SphI HincII
 241 GCTCCCAAAA TGAATATTTT GACAGTTTGT TGCATGCTTG CATACCTTGT CAACTTCGAT
 8► C S Q N E Y F D S L L H A C I P C Q L R
 PciI
 AflIII
 301 GTTCTCTTAA TACTCTCTCT CTAACATGTC AGCGTATTTG TAATGCAAGT GTGACCAATT
 28► C S S N T P P L T C Q R Y C N A S V T N
 BsmFI
 361 CAGTGAAAGG AACGAATGGG ATTCTCTGGA CCTGTTTGGG ACTGAGCTTA ATAATTCTTT
 48► S V K G T N A I L W T C L G L S L I I S
 421 TGGCAGTTT CGTGCTAATG TTTTGTCTAA GGAAGATAAG CTCTGAACCA TTAAAGAGC
 68► L A V F V L M F L L R K I S S E P L K D
 DraI AclI BsaI
 481 AGTTTAAAAA CACAGGATCA GGTCTCTCTG GCATGGCTAA CATTGACCTG GAAAAGAGCA
 88► E F K N T G S G L L G M A N I D L E K S
 XmnI StuI XhoI
 541 GGACTGGTGA TGAAATTATT CTTCGAGAG GCCTCGAGTA CACGGTGGAA GAATGCACCT
 108► R T G D E I I L P R G L E Y T V E E C T
 SalI
 HincII
 AccI
 BbsI
 601 GTGAAGACTG CATCAAGAGC AAACCGAAGG TCGACTCTGA CCATTGCTTT CCACTCCAG
 128► C E D C I K S K P K V D S D H C F P L P
 661 CTATGGAGGA AGGCGCAACC ATTCTGTCTA CCACGAAAAC GAATGACTAT TGCAAGAGCC
 148► A M E E G A T I L V T T K T N D Y C K S
 PvuII
 721 TGCCAGCTGC TTTGAGTCTT ACGGAGATAG AGAAATCAAT TTCTGCTAGG TAATTAACCA
 168► L P A A L S A T E I E K S I S A R
 XhoI DraI BglII
 781 TTTGACTCG AGCAGTGCCA CTTTAAAAAT CTTTGTCTAG AATAGATGAT GTGTCAGATC
 841 TCTTTAGGAT GACTGTATTT TTCAGTTGCC GATACAGCTT TTTGCTCTCT AACTGTGGAA
 Styl
 901 ACTCTTTATG TTAGATATAT TTCTCTAGGT TACTGTTGGG AGCTTAATGG TAGAACTTC
 961 CTGTGTTTCA TGATTAAAGT CTTTTTTTTT CCTGA

FIG. 3

STRUCTURE COMPARISON BETWEEN TNF-R55 AND BAFF-R

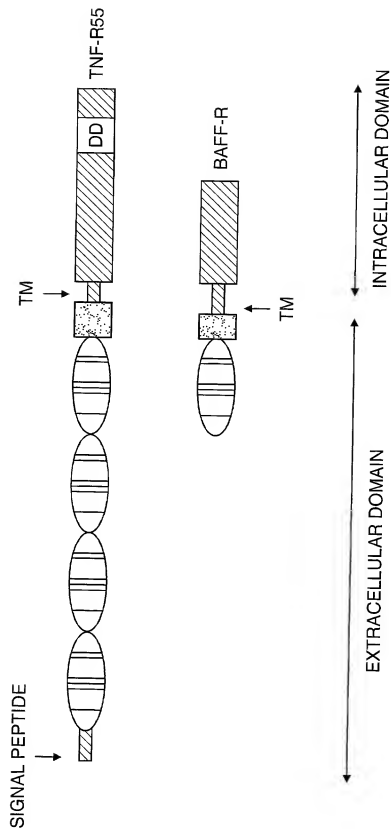


FIG. 4

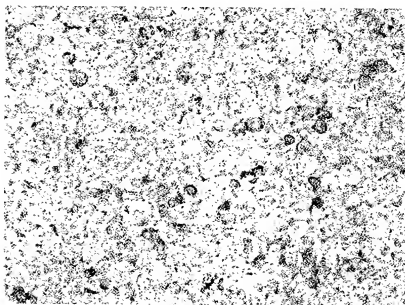


FIG. 5A

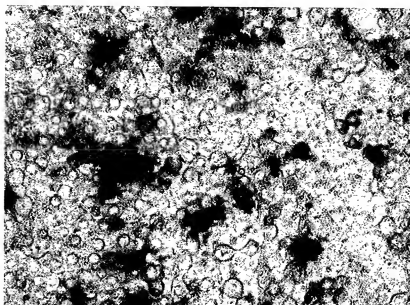


FIG. 5B

7/19

205120: 2572001

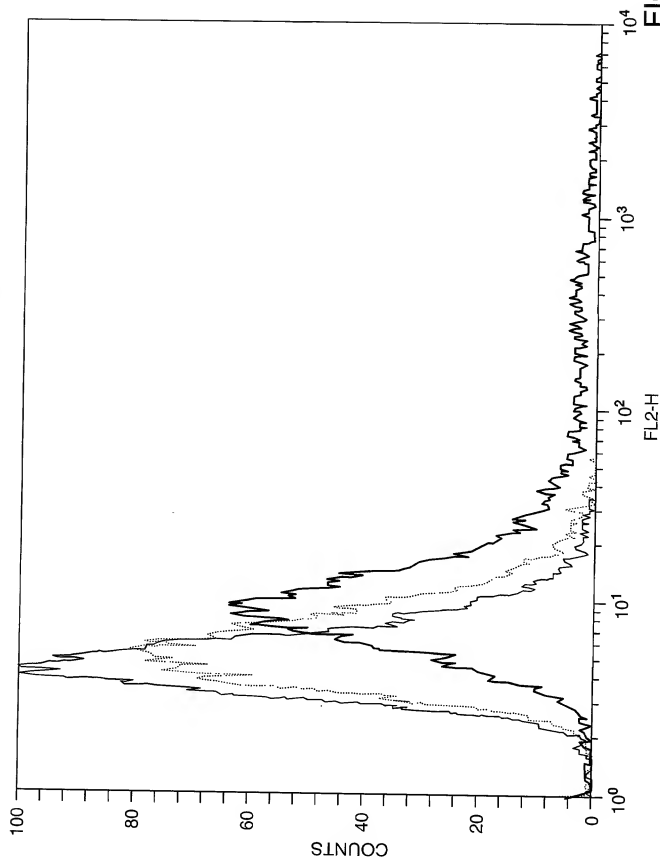
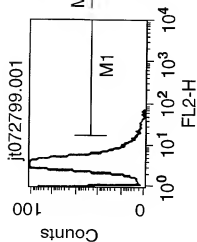
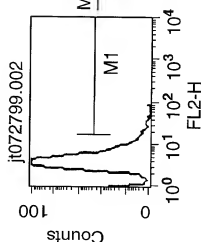


FIG. 6A



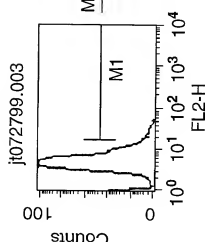
Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	4.26	3.80	61.34	3.65
M1	17.	9910	65	0.65	0.65	23.23	22.44	30.37	20.35

FIG. 6B-1



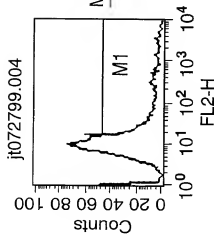
Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	4.61	4.11	61.98	3.89
M1	17.	9910	79	0.79	0.79	22.88	21.98	34.94	19.63

FIG. 6B-2

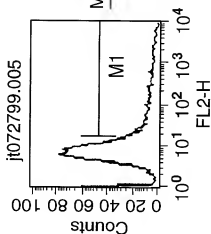


Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	5.51	4.93	58.41	4.66
M1	17.	9910	130	1.30	1.30	23.55	22.98	23.39	22.57

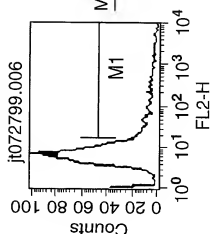
FIG. 6B-3



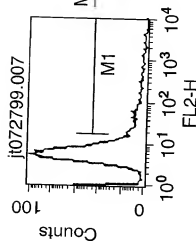
Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	108.24	15.40	459.27	10.27
M1	17.	9910	2785	27.85	27.85	366.10	85.21	243.61	45.32



Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	72.53	11.42	516.47	7.84
M1	17.	9910	2054	20.54	20.54	324.52	88.86	239.37	61.80

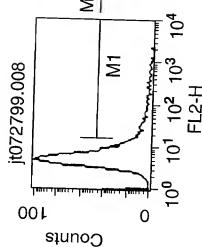


Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	51.15	9.41	566.98	6.67
M1	17.	9910	1673	16.73	16.73	272.40	81.97	244.63	54.25



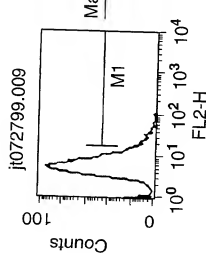
Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	26.59	7.74	576.94	5.94
M1	17.	9910	1313	13.13	13.13	161.35	60.77	246.67	42.94

FIG. 6B-7



Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	12.39	6.54	405.32	5.47
M1	17.	9910	876	8.76	8.76	78.94	43.41	195.84	33.68

FIG. 6B-8



Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	6.99	6.60	69.06	5.67
M1	17.	9910	393	3.93	3.93	24.33	23.31	33.78	21.48

FIG. 6B-9



FIG. 7

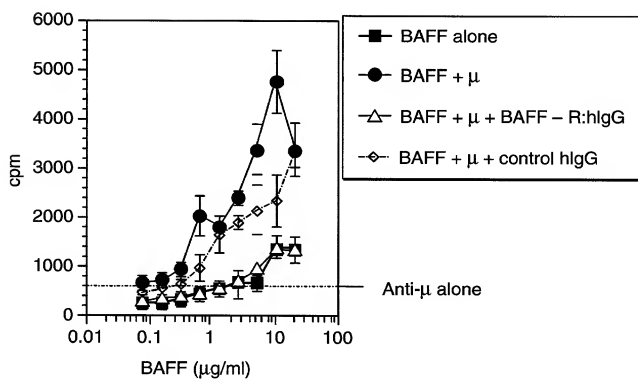


FIG. 8

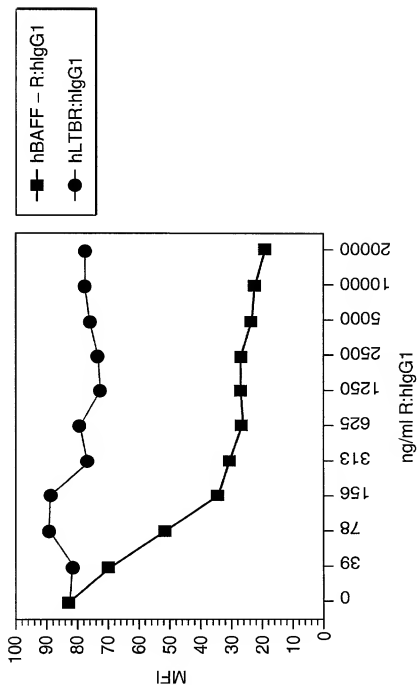
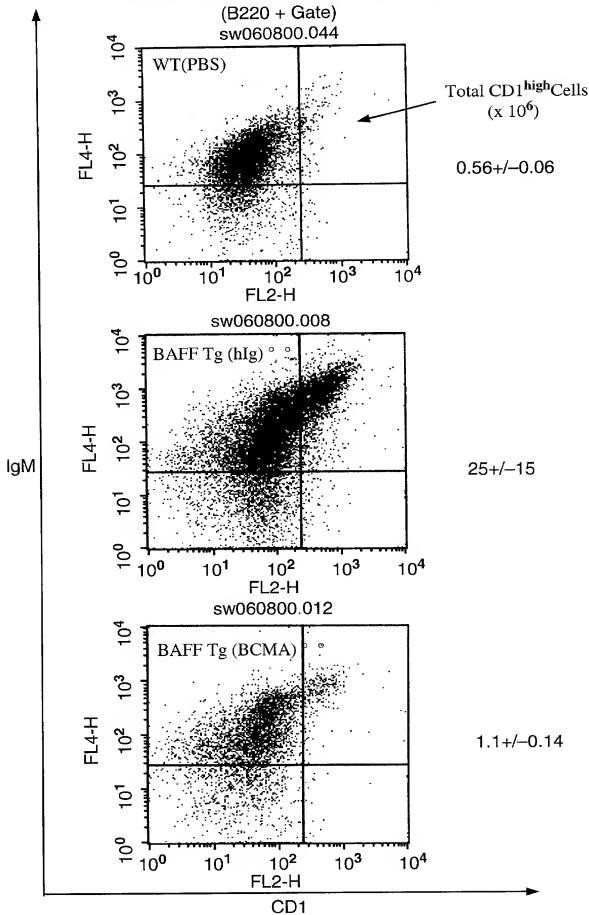


FIG. 9

FIG. 10A

BCMA-Ig Treatment Reduces Total CD1^{hi}/IgM^{hi}
B Cell Populations in Spleens of Baff Tg Mice

13/19



205120: 25742001

FIG. 10B

BCMA-Ig Treatment Reduces Total Mature B
and T2 B Cell Populations in Spleens of Baff Tg Mice

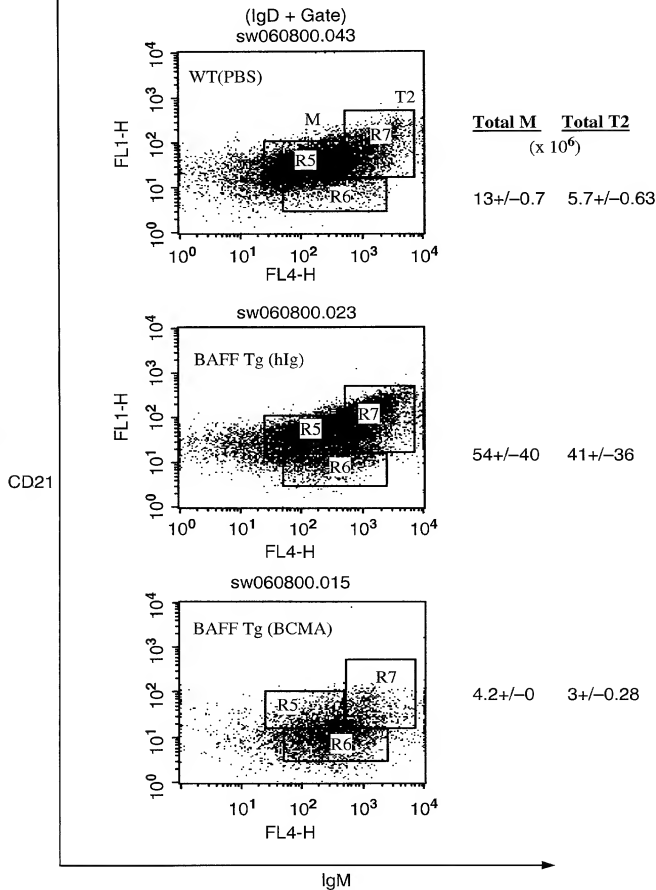
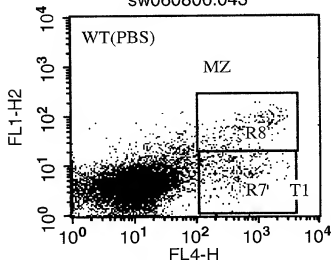


FIG. 10C

15/19

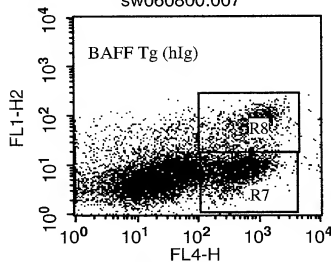
**BCMA-Ig Treatment Reduces Total Marginal Zone
and T1 B Cell Populations in Spleens of BAFF Tg Mice**

(IgD + Gate)
sw060800.043



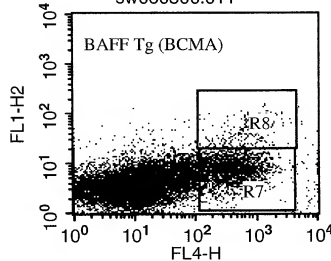
<u>Total Mz</u>	<u>Total T1</u>
(x 10 ⁶)	
0.61+/-0.16	0.94+/-0.08

sw060800.007



14+/-8	39+/-20
--------	---------

sw060800.011

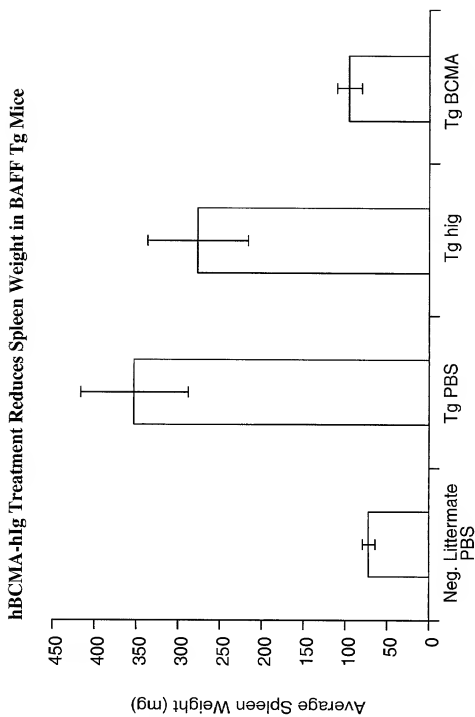


0.34+/-0	3.9+/-1.8
----------	-----------

IgM

CD21

2007-07-27 14:22:00

**FIG. 11**

BCMA-Ig Treatment Reduces Proteinuria in BAFF Tg Mice
to Levels Comparable to Wildtype Mice

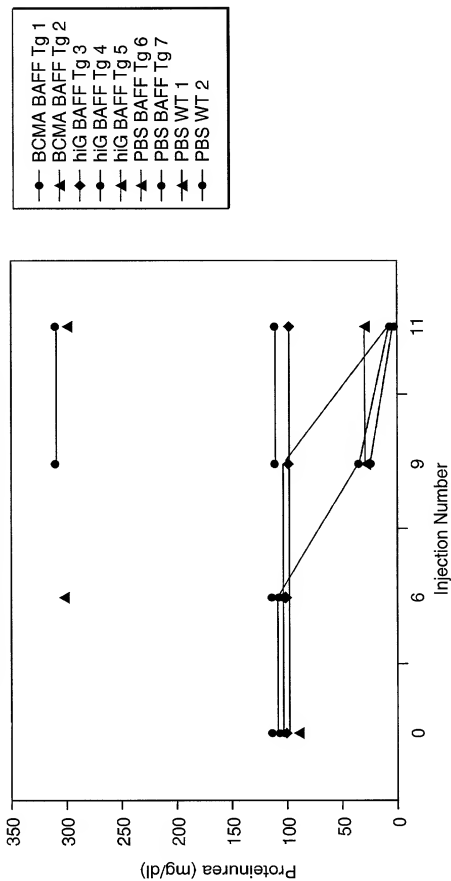


FIG. 12

Average Mean Arterial Pressure in BAFF transgenic (BAFF +) and wild-type controls (BAFF -)

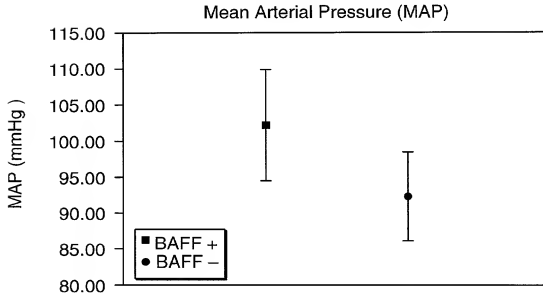


FIG. 13

Individual Mean Arterial Pressure in BAFF transgenic (BAFF +) and wild-type controls (BAFF -)

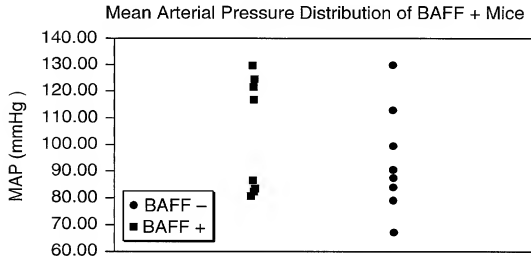


FIG. 14

BCMA-Ig Treatment of Moderately Nephritic SNF1 Mice
Slows Progression to Severe Nephritis

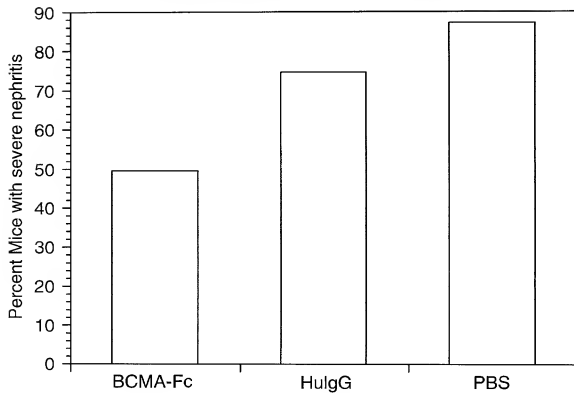


FIG. 15

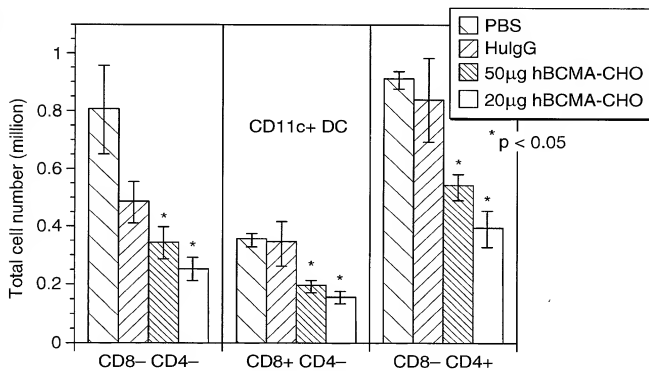


FIG. 16